

CLAIMS

1. A method for preparing a pharmaceutical dosage form comprising:

5 forming first granules comprising a solid pharmaceutically acceptable volatilizable agent and a pharmaceutically active ingredient by a granulation method selected from a wet granulation method and a dry granulation method;

10 volatilizing the solid volatilizable agent from the first granules to form a second granule;

compressing the second granules to form a pharmaceutical dosage form.

2. A method of claim 1 wherein said granulation method is a wet granulation method.

15 3. A method of claim 1 wherein said first granules further comprise a pharmaceutically acceptable compressive agent.

4. A method of claim 2 wherein said first granules further comprise a pharmaceutically acceptable compressive agent.

20 5. A method of claim 1 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, urethane, hexamethylene tetramine, benzoic acid, phthalic anhydride, naphthalene, ammonium bicarbonate, solid water, solid cyclohexane and solid tert-butyl alcohol.

25 6. A method of claim 2 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, urethane, hexamethylene tetramine, benzoic acid, phthalic anhydride, naphthalene, ammonium bicarbonate, solid water, solid cyclohexane and solid tert-butyl alcohol.

30 7. A method of claim 3 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, urethane, hexamethylene tetramine, benzoic acid, phthalic anhydride, naphthalene, ammonium bicarbonate, solid water, solid cyclohexane and solid tert-butyl alcohol.

8. A method of claim 4 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, urethane, hexamethylene tetramine, benzoic acid, phthalic anhydride, naphthalene, ammonium bicarbonate, solid water, solid cyclohexane and solid tert-butyl alcohol.

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9. A method of claim 5 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, and ammonium bicarbonate.

10. A method of claim 6 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, and ammonium bicarbonate.

5 11. A method of claim 7 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, and ammonium bicarbonate.

12. A method of claim 8 wherein said volatilizable agent is selected from menthol, camphor, urea, vanillin, and ammonium bicarbonate.

10 13. A method of claim 9 wherein said volatilizable agent is ammonium bicarbonate.

14. A method of claim 10 wherein said volatilizable agent is ammonium bicarbonate.

15 15. A method of claim 11 wherein said volatilizable agent is ammonium bicarbonate.

16. A method of claim 12 wherein said volatilizable agent is ammonium bicarbonate.

17. A method of claim 1 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

20 18. A method of claim 2 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

19. A method of claim 3 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

20. A method of claim 4 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

25 21. A method of claim 5 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

22. A method of claim 6 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

30 23. A method of claim 7 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

24. A method of claim 8 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

25. A method of claim 9 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

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26. A method of claim 10 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

27. A method of claim 11 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

5 28. A method of claim 12 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

29. A method of claim 13 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

10 30. A method of claim 14 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

31. A method of claim 15 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

32. A method of claim 16 wherein the volatilizable agent comprises about five percent to about 20 percent of said first granules by weight.

15 33. Pharmaceutical granules having enhanced compressive properties prepared by a method comprising:

forming first granules comprising a solid pharmaceutically acceptable volatilizable agent and a pharmaceutically active ingredient by a granulation method selected from a wet granulation method and a dry granulation method; and

20 volatilizing said volatilizable agent from the first granules to form pharmaceutical granules.

34. Pharmaceutical granules of claim 33 wherein said granulation method is a wet granulation method.

25 35. Pharmaceutical granules of claim 33 wherein said first granules further comprise a pharmaceutically acceptable compressive agent.

36. Pharmaceutical granules of claim 33 wherein said volatilizable agent is ammonium bicarbonate.

30 37. Pharmaceutical granules of claim 35 wherein said volatilizable agent is ammonium bicarbonate.

38. A method for preparing a compressed device comprising:

forming first granules comprising a solid volatilizable agent and an active ingredient;

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volatilizing the solid volatilizable agent from the first granules to form second granules;
compressing the second granules to form a compressed device.